**Algebra II Name:**

**Mr. Stiff Period:**

**Unit 2 Test Study Guide Date:**

**Part 1 Simplifying Exponential Expressions**: Simplify the following exponential expressions **COMPLETELY.**

**Part 2 Simplifying Radical Expressions**: Simplify the following radical expressions **COMPLETELY.**



**Part 3 Rational Exponents**

**Write the following radicals in their exponential form:**

**Write the following exponential expressions in their radical form:**

**Simplify COMPLETELY:**

**Part 4: Equations with Radicals and Rational Exponents**

Solve the following equations:

2 +  = 6  – 6 = 0

-10 +  = -5 + 3 – 15

2(*x* – 2) = 50 2(*x* + 3) = 54

3(*x* + 1) = 24 (*x* + 5) = 4

3(*x* – 2) = 24 (*x* + 1) – 2 = 25